Amendments to the Specification:

Please replace paragraph [0073] with the following amended paragraph:

[0073] As may be seen with reference to FIG. 7, the determination of the full engagement of plug 212 and socket 216 (whereby electronic circuitry which requires isolation occurs on the plug side) is achieved as follows. Current from supply line 236 flows through resistor R1 (298), through forward-biased diode 300 and is blocked from the plug sensor circuit output by diode 302. A current pathway is available across the plug/socket junctions 290 and 286, through diode 276 that now acts as a sensor activation element by passing current back through plug/socket junctions 284 and 288, and finally through resistor R2 (304) to Ground 249 250. The potential across resistor R2 (304) with respect to Ground 249 250 is sensed by the socket Sensor Circuit 257 to be approximately 2/3 times 15V (set by the potential divider R1/R2 i.e. ~10V). The threshold voltage necessary to activate the socket Sensor Circuit (257) could be set at 6 or 7 volts, greater than typical logic levels of 5V. Thus the activation voltage of ~I0V is comfortably greater than the threshold, and false activations are minimized. Diode 276 is forward biased because of the crossed Sensor Lines 292 and 294 on the socket side. Were this not the case the required voltage potential at the socket Sensor Circuit 257 would not be available because no current could flow through resistor R2 (304), causing the appropriate activating voltage to be absent. Thus only when plug 212 and socket 216 are fully engaged is the socket Sensor Circuit 257 activated, and the switched lines forming part of the I/O bus 214 are then electrically connected to the I/O bus 222. Hence the switched (and also the unswitched) lines are correctly available at the socket via the fully engaged plug.

Please delete paragraph [0074].

Please replace paragraph [0082] with the following amended paragraph:

[0082] c) current from line 236 via resistor R1 (298) and diode 300 passes along Sensor Line 1 (292) to contacts 290 and 286, then via Sensor Line 2 (282) through diode 276, Sensor Line 1 (280), contacts 284 and 288, Sensor Line 2 (294) and through

resistor R2 (304) to Ground 249 250. The potential at the junction of R2 (304) and Sensor Line 2 (294) with respect to Ground 249 250 is now available to activate the plug Sensor Circuit 257; or

Please replace paragraph [0083] with the following amended paragraph:

[0083] d) current from line 235 through resistor R1 (272) and diode 274 passes along Sensor Line 1 (280), through contacts 284 and 288, then via Sensor Line 2 (294) through resistor R2 (304) to Ground 249 250. The potential at the junction of R2 (304) and Sensor Line 2 (294) with respect to Ground 249 250 is now available to activate the plug Sensor Circuit 257.